

SERVICE BULLETIN

AMATEUR RADIO

SUBJECT

TS-930S INTERMITTENT TX POWER OUTPUT

DATE

05-11-84

The following procedure should correct any tendency of the TS-930S to exhibit intermittent TX Power output. Most of the reported cases of this nature have been traced to poor contact of one or more of the plated-thru holes mentioned below. Careful adherence to this procedure should prevent reoccurrence of this symptom.

PROCEDURE:

1. Remove the top and bottom covers.
 2. Remove the 10 screws securing the final unit to the chassis.
 3. Disconnect all cable assemblies from the final assembly, and remove it from the radio. The fan motor cable may have to be removed for easy access.
 4. Remove all Final unit PC board screws and turn the circuit board foil side up.
 5. Desolder Q6, D2, and the plated-thru hole connecting the foils from R20 and Q8 base together (between T2 and VR1). Do not remove these components!
 6. Carefully remove the green solder resistant coating from the immediate areas of these six points, so that there is bare copper foil up to and surrounding the eyelets.
 7. Carefully resolder these six points, and those listed below:
 - Q1 emitter and base
 - D4 anode and cathode
 - Q2 emitter and base
 - Q3 emitter and base
 - Q7 emitter and base
 - Q4 and Q5 base and both collectors
 - Plated-thru hole between C36 and C15
 - (2) Plated-thru holes by the molex connector
 - Check and resolder the input and output coax connectors
 8. Double check your work to ensure that there are no solder bridges or splashes.
 9. Check the value of R19. If it is not 6.8K ohms, change to this value.
 10. Reinstall the final assembly, and readjust the idle bias currents of the the driver and final transistors in accordance with Service Bulletin #867.
- CAUTION: ENSURE THAT NO CABLES ARE PINCHED BETWEEN THE FINAL ASSEMBLY AND CHASSIS WHEN REINSTALLING THE FINAL UNIT. THE FAN CABLE IS ESPECIALLY VULNERABLE, SO PAY CLOSE ATTENTION.

clm